

MATERIAL SAFETY DATA SHEET

| | IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING |
|----------------------|---|
| Product Name: | Canon Toner Cartridge G Black |
| Product Code: | 1515A / F42-3601 |
| Manufacturer: | Canon Inc. |
| | 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan |
| Supplier: | Canon Singapore Pte Ltd |
| | 1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632 |
| | cspl_msds@canon.com.sg |
| Use of the Product: | Toner for electrophotographic apparatus |

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| < Ingredient(s) > Chemical Name / Generic Name | CAS # / EC # | Weight % | EU Symbol/ R-Phrase | USA OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
|--|-------------------------|-------------|------------------------|---|----------------------------|-----------------|--|
| Styrene acrylate copolymer | Confidential | 40 - 50 | None/ None | Not established | Not established | Not established | Not established |
| Iron oxide | 1317-61-9/ 215-277-5 | 40 - 50 | None/ None | Not established | Not established | Not established | Not established |
| Amorphous silica | 7631-86-9/ 231-545-4 | 1 - 2 | None/ None | 20 mppcf, 80(mg/m ³)/%SiO ₂ | 10 mg/m ³ (TWA) | Not established | 4 mg/m ³ (Inhalable fraction) |

CAS#

Reference

< Carcinogen > Chemical Name

No component of this toner is listed as a human carcinogen or a potential

carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Black fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Low acute toxicity based on animal testing. Ingestion is a minor route of entry for intended use of this product.

Eye:

May cause transient slight irritation.

Skin:

May cause slight irritation.

Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined



SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:

None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

Fire and Explosive Properties (See also Section 9):

Hazardous Combustion Products:

CO2, CO

Other Properties:

Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust.

Environmental Precautions:

Do not wash away into sewer.

Method for Cleaning Up:

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust.

Use with adequate ventilation.

Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific Uses:

Toner for electrophotographic apparatus. For more information, please refer to the instruction of this product.



SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

| USA OSHA PEL (TWA): | 15 mg/m ³ (Total dust), 5 mg/m ³ (Respirable fraction) |
|--------------------------|---|
| ACGIH TLV (TWA): | 10 mg/m ³ (Inhalable fraction), 3 mg/m ³ (Respirable fraction) |
| DFG (MAK): | 4 mg/m ³ (Inhalable fraction), 1.5 mg/m ³ (Respirable fraction) |
| (Also refer to SECTION 2 |) |

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

| Respiratory Protection: | Required |
|--------------------------------|--------------|
| | Not Required |
| Eye/Face Protection: | Required |
| | Not Required |
| Skin Protection: | Required |
| | Not Required |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| Appearance: | Black fine powder |
|--|---|
| Odor: | Slight plastic odor |
| pH: | Not applicable |
| Boiling Point/Range(°C): | Not applicable |
| Melting Point/Range(°C): | 100 - 150 (Softening point) |
| Decomposition Temperature(°C): | > 200 |
| Flash Point(°C): | Not applicable |
| Flammable (Explosive) Limits: | Not applicable |
| Autoignition Temperature(°C): | Not available |
| Flammability: | Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) |
| Explosive Properties: | Can form explosive dust-air mixtures when finely dispersed in air. |
| Oxidizing Properties: | Not available |
| Vapor Pressure: | Not applicable |
| Vapor Density: | Not applicable |
| Density / Specific Gravity: | 1.4 - 1.8 |
| Water Solubility: | Negligible |
| Fat Solubility: | Partially soluble in toluene and xylene. |
| Partition Coefficient (n-Octanol/Water): | Not applicable |
| Percent Volatile: | Negligible |
| Evaporation Rate: | Not applicable |
| Viscosity (mPa s): | Not applicable |



| SECTION 10 STABILITY AND | REACTIVITY |
|---|---|
| Stability: | X Stable |
| | Unstable |
| Conditions to Avoid: | None |
| Materials to Avoid: | Strong oxidizers |
| Hazardous Decomposition Products: | <u>CO, CO2</u> |
| Hazardous Polymerization: | ☐ May Occur X Will Not Occur |
| Conditions to Avoid: | None |
| SECTION 11 TOXICOLOGICA | AL INFORMATION |
| Acute Toxicity: Inhalation: Not available | |
| Ingestion: Rat, LD50 > 2000 mg/kg | |
| Eye: Rabbit, transient slight conjunctiv | val irritation only. |
| Skin: | |
| Rabbit, mild irritant | |
| Sensitization: Guinea pig, skin: Non-sensitizing | |
| Mutagenicity: Ames Test (S. typhimurium, E. c | oli): Negative |
| Reproductive Toxicity: Not available | |
| Carcinogenicity: Not available | |
| respirable-sized particles compar most relevant to potential human animals at 4 mg/m ³ , and a mild to | response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m ³ which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the pomoderate degree of fibrosis was observed in 92% of the animals at 16 mg/m ³ . lung overloading", a generic response to excessive amounts of any dust retained |

in the lung for a prolonged interval.



SECTION 12 ECOLOGICAL INFORMATION

| Mobility: | Not available |
|------------------------------|---------------|
| Persistence / Degradability: | Not available |
| Bioaccumulation: | Not available |
| Ecotoxicity: | Not available |
| Other Adverse Effects: | Not available |
| | |

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal:

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

| SECTION 14 | TRANSPORT INFORMATION |
|----------------------------------|---|
| UN #: | 2807 |
| UN Shipping Name: | Magnetized material |
| UN Classification: | 9 |
| UN Packing Group: | None |
| Marine Pollutant: | ☐ Yes Chemical name (wt%): ☑ No |
| Special Precautions | 7 or more of these products shipped together, by air, are regulated as magnetized material. |
| SECTION 15 | REGULATORY INFORMATION |
| < EU Information > | |
| Information on the | Label: |
| Symbol & Indic | ation: Not required |
| R-Phrase: Not required | |
| S-Phrase: Not required | |
| Dangerous Com None | ponent(s): |
| Special Precauti Not required | ons under 1999/45/EC Annex V: |
| Specific Provisions | in Relation to Protection of Man or the Environment: |
| 76/769/EEC: | Not regulated |
| (EC)2037/2000: | Not regulated |
| (EC)304/2003: | Not regulated |
| Others: | None |
| < USA Information : | > |
| Information on the | Label: |
| Signal Word: | Not required |
| Hazard warning Not required | ;: |



| Safety Advice: Not required Hazardous Component(s): | | |
|---|---|--|
| Hazardous Component(s): | | |
| None | | |
| SARA Title III §313: | | |
| Chemical Name | | Weight % |
| None | | 0 |
| California Proposition 65: | | |
| Chemical Name | | Weight % |
| None | | |
| < Canada Information > | | |
| WHMIS Controlled Product: | Not applicable (Manufactured article) | |
| < Australia Information > | | |
| Statement of Hazardous Nature: | Not classified as hazardous according to criter | ia of NOHSC. |
| SECTION 16 OTHER INFOR | RMATION | |
| Revised information from the prev | | |
| U.S. Department of Health and Human Set World Health Organization International A Chemicals to Humans DFG, List of MAK and BAT Values EU Directive 76/769/EEC, 67/548/EEC, 1 EU Regulation (EC)2037/2000, (EC)304/ Canada Workplace Hazardous Materials In | on, 16CFR Part 1500 nical Substances and Physical Agents and Biological Exposur- rvices National Toxicology Program, Annual Report on Carci Agency for Research on Cancer, IARC Monographs on the Ev 1999/45/EC 2003 | inogens valuation on the Carcinogenic Risk of |